

Claims

1. Heat shield arrangement (5) for a hot-gas conducting structure, in particular a metal component of a gas turbine unit or combustion chamber (10), with shield elements (20) arranged adjacently on a support structure (15) and anchored to this to cover a surface

wherein

- at least two adjacent heat shield elements (20) have in each case at least one lateral groove (25), arranged in the region of the edge of the surface thereof facing the hot gas,
- these heat shield elements (20) are connected by means of at least one seal element (30) installed in the groove (25), and
- the seal element (30) is embodied as a sealing flap which may be displaced from a first position to a second position and vice versa, whereby the first position is an open position without a sealing effect and the second position is a closed position with a sealing effect.

2. Heat shield arrangement according to Claim 1 wherein

the seal element (30) can be displaced from the first to the second position by means of a movement of a heat shield element (20).

3. Heat shield arrangement according to Claim 1 or 2 wherein

the seal element (30) has an essentially C-shaped cross-section.

4. Heat shield arrangement according to Claim 3 wherein

the seal element (30) is embodied as a bent plate.

5. Heat shield arrangement according to Claim 4 wherein

the plate consists of sheet metal.

6. Heat shield arrangement according to one of the Claims 3 to 5 wherein

the seal element (30) can be retained in the first position as a
5 consequence of the longitudinal slot (61) embodied through the C-shaped cross-section.

7. Method for producing a heat shield arrangement according to one of the Claims 1 to 6

10 comprising the following steps:

- a) a first and a second heat shield element (51, 52) are anchored on the support structure (45) leaving a space for a third heat shield element (53) so that the groove (55) of the first heat shield element (51) is situated opposite the groove (55) of the
15 second heat shield element (52),
- b) a seal element (60) is in each case installed in the groove (55) of the first and of the second heat shield element (51, 52) in such a way that the seal element (60) is retained in the first position,
- 20 c) the third heat shield element (53), having in each case a groove (55) on opposite sides, is moved into the space in the direction of the support structure (45) with a seal element (60) in each case protruding into one of these grooves (55),
- d) the seal element (60) is displaced in each case into the second
25 position due to the movement (B) of the third heat shield element (53), and
- e) the third heat shield element (53) is anchored on the support structure (45).